

The M767A1 Material Change Program, An Investment in Flexible Fuzing

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M767 Material Change

- General upgrade to M762/767 ETF
- Outline
 - ▲ Requirements
 - ▲ Design changes
 - ▲ Results

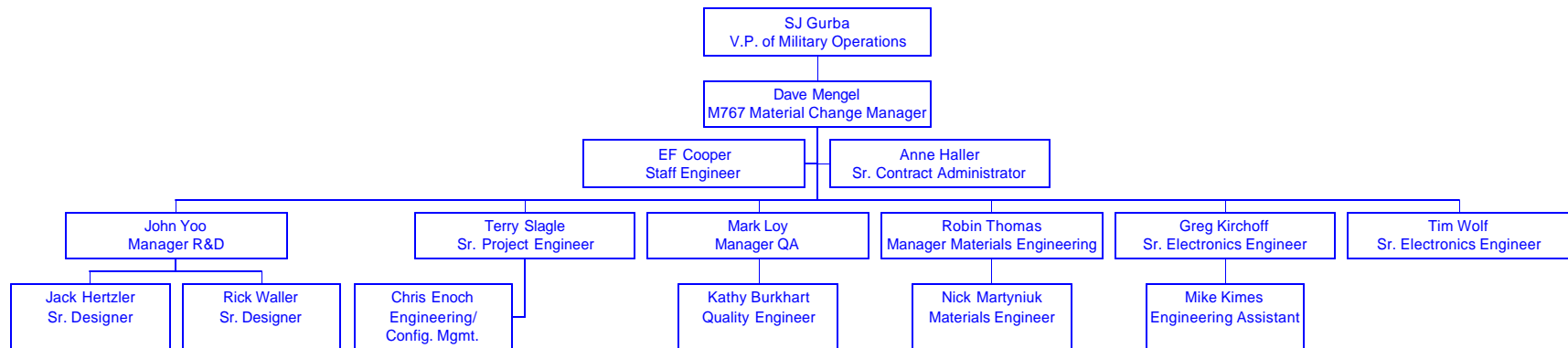
- **Program phases**

- ▲ **Design enhancement**
- ▲ **PPQT**
- ▲ **Qualification**
- ▲ **Production**

- **Topic of presentation is design enhancement phase**

- No project this significant can be accomplished without a strong team.
- ARDEC and Bulova are working cooperatively under an IPT charter.
- The ARDEC/Bulova team is second to none with regard to artillery and mortar fuzing.

Bulova M767A1 Core Project Team

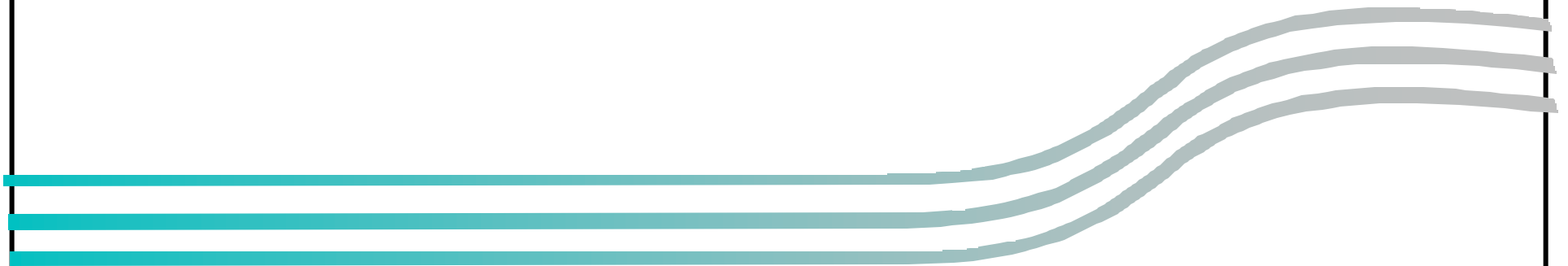


■ Mechanical

- ▲ Fuze assembly enhancements
- ▲ Fuze robustness enhancements
- ▲ PD function enhancement
- ▲ Improve waterproofness
- ▲ Improve button retainer

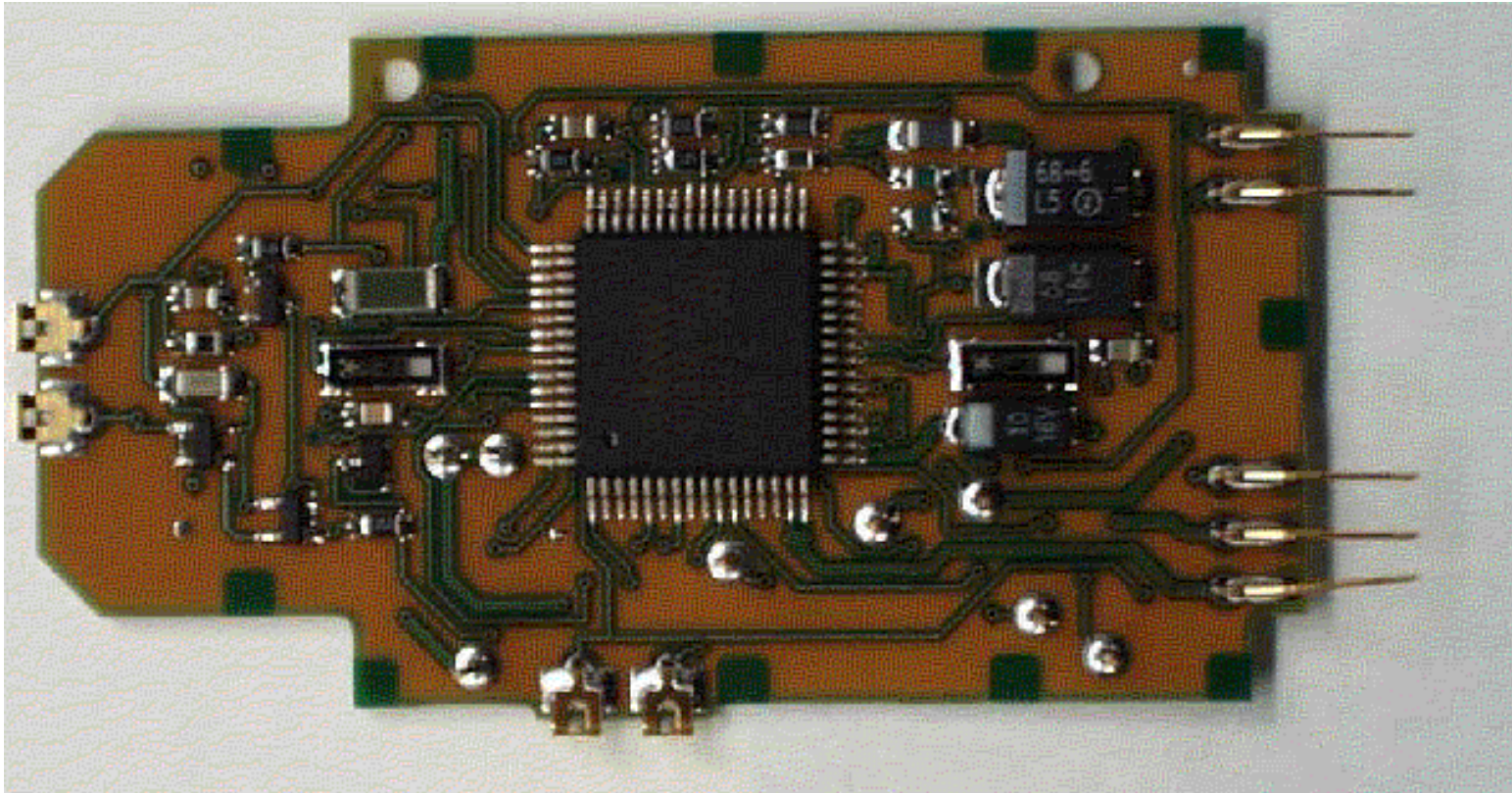
Fuze Assembly Enhancement

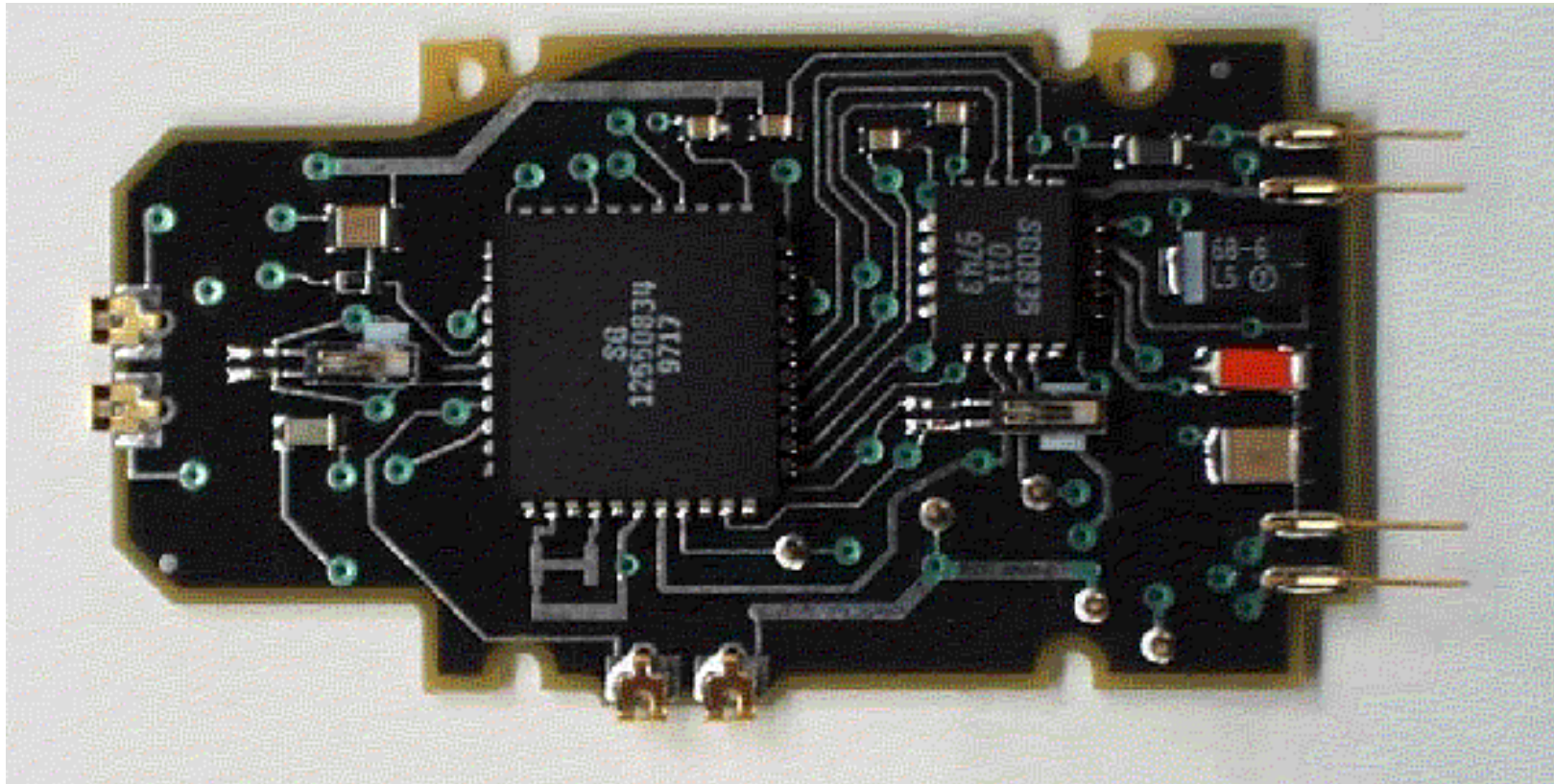
- Surface Mount Crystals
- Encapsulation
- ESD Shield
- Shield Cap
- Fuze Height



- Replace the existing leaded crystal with SMT part
- Developed a new package
- Proved design through environmental and ballistic testing

M767A1/762A1





ESD Shield



Shield Cap



- S&A redesign
- Battery connection
- End cap attachment
- LCD lens/fuze housing